

B-8

MATEYEVA,

USSE/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria,

Physical-Chemical Analysis, Phase Transitions.

Abs Jour: Referat. Zhurnel Chimiya, No 2, 1958, 3790.

Marie Lin Author : I. I. Kornilov, N.M. Mateyeva.

Title : Phase Transitions in Chromium-Vanadium System.

Grig Pub: Zh. neorgan. khimii, 1957, 2, No 2, 356-366. Abstract: The phase transitions in the Fe - Cr - V system were studied by the methods of differential thermal analysis (DTA), of hardness and electric resistivity measurement and of microstructural and roentgen-structural analyses in compositions corresponding to sections with constant Pe content of 50 st. (P_1) and constant (P_2) or (P_3) and (P_4) . At high temperatures, the alloys are ternary solid solutions of ferrite subject to the transformation 6 > at annealing or slow cooling; the temperature of the transformation determined for P, by the

: 1/2

-29-

Thermodynamics, Thermochemistry, USSR/Physical Chemistry

Equilibria, Physical-Chemical Analysis, Phase Transitions.

: Referat Zhur - Khimiya, No 1, 1958, 392 Abs Jour

: N.N. Kornilov, N.M. Matveyeva. Author

Inst : Transformation Speed of A -Solid Solution into 6 -Phase Title

in System Fe - Cr - V.

: Zh. neorgan. khimii, 1957, 2, No 6, 1383-1391 Orig Pub

: The phase composition of the ternary system iron - chro-Abstract

mium - vanadium at 7000 was studied by the method of measuring the transformation speed. The transformation speed of an \propto -solid solution into the $\hat{\mathcal{G}}$ -phase was determined from the data of the change of the magnetic saturation of alloys tempered at 1350° during their annealing at 700°. Alloys situated on the section FeCr - FeV and on the three angle sections with the ratios of Cr to V of 1:3, 1:1 and 3:1 were studied. The formation speed of S -solid

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USSR/Physical Chemistry - Thermodynamics, Thermochemistry, B-8 Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 392

solutions from ∞ -solutions of the compounds FeCr and FeV is the maximum in case of alloys, the composition fo which is close to the composition of FeV, and the minimum formation speed is in case of alloys close to FeCr. The phase composition of ternary alloys was determined for alloys on angle sections basing on the curves magnetic saturation time and composition - time of transformation of a half. The boundaries of phase regions at 700° coincide with boundaries established by other methods of physical-chemical analysis.

Card 2/2

MATVEYEVA, NIMI

Kornilov, I.I. and Matveeva, N.M.

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AUTHURS: TITLE:

Phase Transformation in the System Iron - Chromium- Vanadium.

(Fazovye Prevrashcheniya v Sisteme Zhelezo - Khrom - Vanadiy).

PERIODICAL:

"Zhurnal Neorganicheskoy Khimii" (Journal of Inorganic Chemistry,

Vol.11, No.2, pp.355-366. (U.S.S.R.), 1957

ABSTRACT:

Because of the insufficient amount of experimental material on alloys of iron with chromium and vanadium there is a clear need for a detailed study of phase transformations in the system, associated with the formation of solid solutions of the metallic compounds FeCr and FeV. The present work was undertaken with this aim in view and also with that of finding the ranges for the existence of these compounds. The alloys corresponding to four sections of the ternary system were studied. Differential thermal analysis, hardness, electrical resistivity, micro-structural and X-ray structural analysis were used. At high temperatures the alloys of iron with chromium and vanadium are ternary ferritic solid solutions in the hardened state. On annealing or slow cooling the ferritic solid solutions undergo a 6-> a transformation. The formation of the 6-phase is expressed in the loss by the alloys of ferromagnetic properties and increase in hardness and brittleness. The temperature of this transformation was determined by differential thermal analysis. For alloys of the section corresponding to 50 atomic % iron it rises evenly and continuously from the compound FeCr (868°C) to the compound FeC (1225°C). This indicates the

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And the configuration of the first the first

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Phase Transformation in the System Iron - Chromium - Vanadium. (Cont.)

formation of the continuous range of solid solutions between these compounds. For alloys of the other sections, corresponding to various constant ratios of the concentrations of chromium to that of vanadium the temperature of the $6\rightarrow\alpha$ transformation changes with respect to the composition according to smooth curves with a maximum: for a 1: 3 Cr: V ratio the maximum corresponds to a temperature of 1170°C, for a 1: 1 ratio to 1095°C, for a 3: 1 ratio to 970°C. Because of the difference in the properties of the α and δ phases the phase boundaries could be determined with great accuracy. The

6-phase range is represented by a smooth and continuous change in properties with composition, which confirms Kornilov's view of the 6-phase in the system iron - chromium - vanadium as a solid solution of metallic compounds. On the basis of the isothermal section of the ternary system for room temperature and the data of thermal analysis of the sections investigated, a spatial diagram has been constructed, which indicates that the 6-solid solution region of the compounds FeCr and FeV

Card 2/3

Phase Transformation in the System Iron - Chromium - Vanadium. (Cont.)

extends in the ternary system in the form of a tunnel-like shape from the binary system iron - chromium to the binary system iron - vanadium.

There are 9 references, 6 of them Russian.

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Ref.3: I.I.Kornilov, Zhelezne Splavi, Vol.2, published by the Academy of Sciences of the USSR, 1951. Received 8 October, 1956. 15 Figures and 3 Tables.

Card 3/3

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and the second construction of the second constr

5.4700 authors:

Kornilov, I. I., Matveyeva, N. M.

TITLE:

Reaction Heat of the Transition of the d-Phase Into the Solid a-Solution in the System Iron - thromium

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 6, pp. 1387 - 1388

TEXT: By way of introduction, the authors describe the thermographic method which they used for their experiments. This method was suggested by L. G. Berg and V. Ya. Anosov (Refs. 1 and 2), and was improved by G. G. Tsurinov (Ref. 4). A substance which does not react with the substance to be tested, and whose thermal effects are exactly known serves as standard substance. Its thermal differential curve is recorded by a Kurnakov pyrometer along with the differential curve of the substance to be tested. The values of these thermal effects are obtained by graphical integration of the deviations from zero and on the strength of the known values of the standard substance. The present paper describes the transition of the d-phase (composition of the alloy similar to that of FeCr)

Card 1/2

Reaction Heat of the Transition of the σ -Phase Into the Solid α -Solution in the System S/078/60/005/06/28/030 B004/B014

into the solid α -solution. The alloys were made from electrolytic chromium and Armco iron in an arc furnace filled with argon. Then, they were homogenized and annealed for 500 - 700 hours at 1.00° C in order to obtain the σ -phase. Iron with an $\alpha \to \beta$ transformation equal to 0.27 kcal/gram-atom and a $\beta \to \gamma$ transformation equal to 0.25 kcal/gram atom was used as standard. The endothermic effects of the $\sigma \to \alpha$ transformation (Fig. 1). Analyses of the alloys under consideration, as well as their temperatures and heats of transformation are given in a table. The heats of transformation varied between 1.06±0.05 and 0.73±0.05 kcal/gram-atom, depending on the composition of the σ -phase. There are τ figure, 1 table, and 7 references: 6 Soviet and 1 British.

SUBMITTED: January 6, 1960

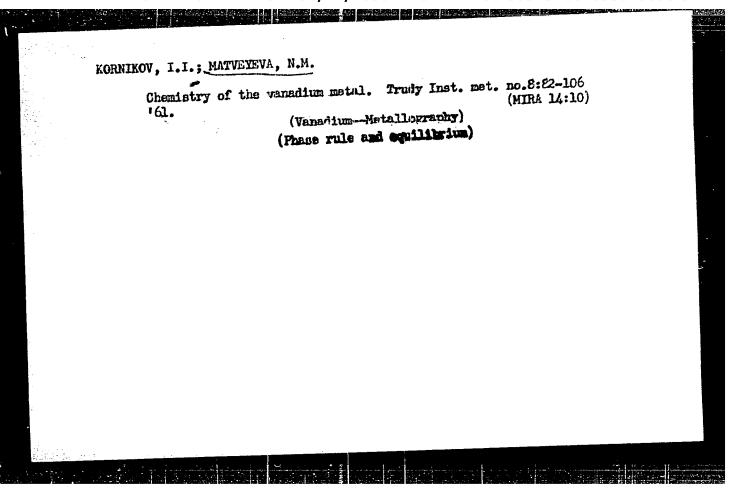
Card 2/2

Wornsilov, I.I.; MATVEYEVA, N.M.

Vanadium and its fields of application. Trudy Inst. met. no.8:
58-81 '61.

(Vanadium)

(Vanadium)



5.4800 1257 1413,1418,2808 25855 8/020/61/139/004/015/025 B103/B206

AUTHORS: Kornilov, I. I., Matveyeva, N. M.

TITLE: Heat of dissociation of Kurnakov's compounds Ni₃Fe, Ni₃Mn, Ni₃Cr, and Ni₃V

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 4, 1961, 880 - 883

TEXT: The heat of dissociation is defined as being the temperature of transition of a compound into a solid solution at the critical transition temperature. The authors recall that metallic compounds are formed from solid solutions (e.g., in the system Cu-Au, N. S. Kurnakov, S. Zhemchuzhnyy, M. Zasedatelev, ZhRFKhO, 47, 871 (1915)). In honor of their discoverer they were called Kurnakov compounds (I. I. Kornilov, Usp. khim. vyp. 9, 1045 (1952)). In publications (especially of the non-Soviet bloc, F. Rhines, J. Newkirk, Trans. Am. Soc. Metals, 45, 1029, 1953), they are considered to be the product of a single atomic regrouping connected with the ordering of the structure in the homogeneous medium, no phase transformation taking place in this case. Although in the systems Ni - Fe,

Card 1/6

25855 S/020/61/139/004/015/025 B103/B206

Heat of dissociation of

Ni - Mn, and Ni - Cr the above-mentioned compounds Ni Me are formed from solid solutions, only a dotted line of the ordering of solid solutions used to be drawn in their equilibrium diagrams. The phase transformations mentioned might, however, be accompanied by considerable energy conversions. In comparing the phase-transformation temperatures of NizMe alloys in the three systems mentioned with the heat of formation of Ni, V and Ni, Ti, the authors tried to gain new knowledge on the nature of transformations in these systems. They used the thermographic method by L. G. Berg and V. Ya. Anosov (Ref. 8: ZhOKh, 12, 31 (1942)) for the determination of the value of phase transformations of the systems mentioned in the title. This method is based on a comparison of the areas of peaks of differential heating curves corresponding to the thermal effects in the standard and the specimen. Iron was used as a standard. The thermal effects of the magnetic $\mathcal{A} \longrightarrow \mathcal{B}$ and the polymorphous $\mathcal{B} \longrightarrow \mathcal{F}$ transformation of iron are known. On the basis of their values, the authors found the relative error of determination involved in the method used here, by calculating the value of one thermal effect from that of the other. This calculated value is Card 2/6

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Heat of dissociation of ...

compared with the value in the table. The authors established that the two compared values of the $x \longrightarrow \beta$ Fe transformation differ by 2 - 5%, i.e., this difference lies within the range of accuracy of the method. Besides iron, nickel was also used as a standard for the determination of the thermal effects accompanying transformations in the alloys Ni - Mn, Ni - Fe, and Ni - Cr. The areas of the thermal effects were measured by geometric integration. NizMe alloys were prepared in the arc furnace in an argon atmosphere from electrolytic Ni, Fe, Mn, Cr as well as from carbothermic vanadium (V content 99.8%). On the basis of a chemical analysis, alloys corresponding stoichiometrically to Ni, Me were used for the investigation. They were subjected to: a) high-temperature homogenization annealing, b) long lasting annealing at temperatures below the critical transformation point: All alloys were annealed at 4500 except Ni3V which was annealed at 950°C. The thermal effects were measured after annealing for 700, 1000, and 1400 hr. Table 1 gives the results. The highest value of AH was obtained for Ni₃Cr with 1400 hr annealing at 450°C (0.41 kcal/g-at). This value is much lower than the AH values of NigFe, NigMn, and NigV. Card 3/6

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Heat of dissociation of ...

Card 4/6

authors presume that the compound forms here very slowly, and that the alloy did not reach equilibrium. This problem is to be investigated further. The authors point out the high AH value which is considerably greater than 1, except for Ni3Cr. The strength of the chemical bond might be of different nature in alloys annealed for a long time than in solid solutions. In the alloys investigated, the ordering processes are obviously linked with the formation of more stable metallic compounds. In the authors' opinion, they must have independent ranges of existence in the phase diagram of the system, and two-phase ranges as phase transformation of first kind. The authors compare the data of Table 1 with the position of the respective metals in the periodic system. It is concluded that the $\Delta \mathtt{H}$ values of all compounds mentioned are commensurable and increase (with the exception of Ni3Cr) with the distance of the metal contained in the compound from the position of nickel in the periodic system. Consequently, a certain dependence of the properties of chemical compounds on the position of the components in the periodic system is maintained. The strength of the chemical bond in Ni3Fe, Ni3Mn, Ni3V, and Ni3Ti is apparently also determined by the heat of formation (heat of dissociation). It

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Heat of dissociation of ...

increases with increasing difference of the chemical properties of the interacting metals, and is thus connected with the position of the reacting elements in the periodic system. The increasing strength of the chemical bond in the series Ni₃Fe, Ni₃Mn, Ni₃Cr, Ni₃V, and Ni₃Ti must be reflected

in the mechanical strength of these compounds, which, however, is to be investigated additionally. There are 4 figures, 1 table, and 13 references: 8 Soviet-bloc and 5 non-Soviet-bloc. The two references to English-language publications read as follows: Ref. 6: P. Leech, S. Sykes, Phil. Mag., 27, No. 185 (1939); Ref. 7: O. Kubaschewski, et. al. Trans. Farad. Soc., 52, 214 (1954). The third one see in the body of the abstract.

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences USSR)

PRESENTED: March 13, '961, by I. I. Chernyayev, Academician

SUBMITTED: February 22, 1961

Card 5/6

KORNILOV, I.I.; MATVEYEVA, N.M.

Metallurgical chemistry of vanadium. Usp.khim. 31 no.9: 1076-1103 S '62. (MIRA 15:9)

1. Institut metallurgii imeni A.A.Baykova.
(Vanadium) (Chemistry, Metallurgic)

KORNILOV, I.I.; MATVEYEVA, N.M.

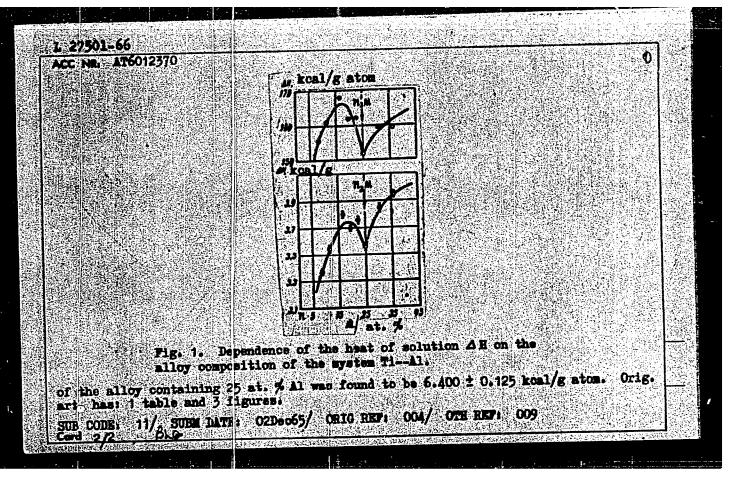
Greep rate of the MnNi₃ compound as dependent of the equilibrium state.

Dokl. AN SSSE 146 no.3:642-643 S 162. (MIRA 15:10)

l. Institut metallurgii im. A.A.Baykova. Predstavleno adakemikom A.A.Bochvarou.

(Man ganese-nickel alloys) (Creep of metals)

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| neat of formation, and the -solid solution region were g the appropriate heats of alorimeter is presented, as are 1). It was found that the ve corresponded to the minimum e composition of the compound with those of 0. Kubaschewski andard heat of formation at 250 | determined. The enthalpi solution in % hydrofluor the experimental results minimum in integral heat hardness in the hardness |
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L 36924-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG
ACC NR: AP6008497 SOURCE CODE: UR/0062/66/000/001/0008/0016

AUTHOR: Kornilov, I. I., Matveyeva, N. M.

ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii)

TITLE: Investigation in metal chemistry. Communication 5. Interaction between intermetallic compounds

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 8-16

TOPIC TAGS: intermetallic compound, metal chemical analysis, solid solution

ABSTRACT: In this work the authors discuss the basic physicochemical factors determining the interactions between intermetallic compounds and cite their latest experimental data. Intermetallic compounds in equilibrium systems are treated as individual components. During their interaction continuous solid solutions, limited solid solutions, peritectic and eutectic mixtures, and ternary compounds or phases of a complex composition can form. In contrast to solid solutions of metals, the authors termed solid solutions on a base of metallic compounds intermetallic (metallide) solid solutions. Continuous or limited solid solutions of intermetallic compounds under certain conditions are formed between Kurnakov compounds, berthollide-type compounds, daltonide-type compounds, and compounds of the berthollide and daltonide types. The authors examined certain examples of the

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Card 2/3

ACC NR: AP6008497

interaction between compounds from the data of their investigations, one of the first systems with a continuous solid solution of intermetallic compounds being the system consisting of the CrFe and VFa Kurnakov compounds. These compounds are formed in binary systems from continuous a-solid solutions of components upon a drop of temperature. Both compounds with respect both to chemical and to structural features satisfy the basic conditions for the formation of continuous solid solutions expressed by the author, i.e., that the compounds should have an identical type of crystal structure with similar values of the lattice parameters, similar type of chemical bond in the compounds, the presence in the compositions of these compounds of the atoms of elements (analogs) capable of being continuously replaced in the crystal lattice of the compounds, the presence in the compositions of two interacting compounds of atoms of the same element, and that the compound should have an identical stoichiometric composition. The intermetallic compounds have special, individual properties and play a most important role in the physicochemical and mechanical properties of metal alloys. They have an independent importance as the base for new inorganic materials with special physical properties. The properties of intermetallic compounds can be appreciably modified by their interaction with one another and by the formation of intermetallic solid solutions, eutectic mixtures, and complex multielement compounds. The level of the physicochemical and mechanical properties in intermetallic compound systems is appreciably higher than in simple metallic systems.

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SAMYGIN, G.A.; MATTEYEVA, N.M.

Protective action of solutions during extracellular formation of ics in plant tissues. Fiziol. rast. 12 no.3:516-524 (MIRA 18:10)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva.

3(10)

PHASE I BOOK EXPLOITATION

SCV/1758

Matveyeva, N. N.

Tablitsy znacheniy kompleksnykh koeffitsiyentov otrazheniya-prelomleniya prodol'nykh i poperechnykh (SV) voln v sluchaye dvukh
odnorodnykh i uzotropynykh uprugikh sred, nakhodyashchikhsya v
zhestkom kontakte drug s drugom (Tables of values of complex
coefficients of reflection and refraction of longitudinal and
transversal (SV) waves in a case of two homogeneous and
isotropic elastic mediums rigidly connected with each other)
[Leningrad] Ind-vo Leningr. univ., 1957. 420 p. (Series:
Materialy kolichestvennogo izucheniya dinamiki seysmicheskikh
voln, tom. 1 (Materials of a Quantitative Study of the Dynamics
of Seismic Waves) 1,100 copies printed.

Sponsoring Agencies: Akademiya nauk SBSR. Matematicheskiy institut. Leningradskoye otdeleniye, Leningrad. Universitet, and Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metolov razvedki.

Card 1/5

Tables of Values (Cont.)

SOV/1758

Ed. of Series: G. I. Petrashen'; Ed.: G. I. Petrashen'; Tech. Ed.: R. S. Volkhover

PURPOSE: This book is intended for geophysical analyzing the seismic records obtained by exploratory groups in search for oil and mineral deposits.

COVERAGE: This volume of tables provides the values of complex coefficients for reflection-refraction longitudinal and transverse (SV) waves together with values of transverse (SH) waves, the function values for directional sources, the coefficients of head wave formation, the conversion ratios, etc. The tables can be used either for the study of wave fields by means of numerical integration, or for approximate computation based on formulas derived from the plane wave theory or the beam method. This approach has a direct bearing on many practical problems in seismology and seismic exploration. Such tables, accompanied by explanatory notes, will facilitate the calculation of intensities of expected wave trends in the area to be explored, the expected signs of incidence and the forms of the waves.

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Tables of Values (Cont.)

sov/1758

This advance information will improve the interpretative results by increasing the accuracy of observations and will provide a new approach to the study of seismic phenomena, including wave propagation in actual field conditions. The second volume of this series will aid in computing the dynamic characteristics of seismic (elastic) waves in bedded media. Work on the series is being done in cooperation with the facilities of the Department of Dynamics of LOMI and the Laboratory for the Study of the Dynamics of Elastic Media of LOW. The author expresses his thanks to his director G.I. Petrashen' for his interest and attention; to N.M. Terent'ev for his general advice; to Z.M. Kustova, who participated in the initial stages of the work; and to V.I. Loseva and V.G. Struman for handling technical matters. There are 9 Soviet references.

TABLE OF CONTENTS:

From the Editor

Card 3/5

4

361,68 \$/181/62/004/003/006/045 B152/B102

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AUTHORS: Boltaks, B. I., and Matveyeva, N. N.

TITLE: Diffusion of phosphorus in silicon

PERIODICAL: Fizika tverdogo tela, v. 4, no. 3, 1962, 609 - 614

TEXT: In the diffusion of phosphorus atoms in p-type silicon, a not yet fully clarified deviation was observed from the distribution function

 $\operatorname{erfc}(x/2\sqrt{D^{\frac{1}{2}}}) = 1 - \frac{2}{\sqrt{11}} \sum_{n=0}^{\infty} (-x^2) dx$ which holds for other elements

of groups III and V. This deviation is explained by evaporation of phosphorus from the Si surface during diffusion. The Si single crystals (20 - 40 chm·cm) used for the experiment were ground, etched in -8 (SR-8), washed, and then introduced in quartz tubes together with small amounts of P32. The tubes were evacuated and sealed, and heated in a furnace. One part of the furnace with the crystal had always the same temperature (1200°C) while the temperature of the other part containing the phosphorus was 1200°C in one and 250°C in another series of measurement. The holding Card 1/2

S/181/62/004/003/006/045 B152/B102

Diffusion of phosphorus ...

periods were 12 and 24 hrs, respectively. To determine the distribution, thin layers were removed from the crystal and the radioactivity was measured. A calculation of the diffusion equation, with consideration of the evaporation of the diffusing substance, gives a family of curves for various evaporation probabilities of the P atoms (Fig. 4). Corresponding experiments with low P vapor pressures showed a distinct maximum. This maximum did not appear at constant saturation vapor pressure. Preliminary experiments with n-type Si yielded the distribution erfc(x/2 | Dt) under analogous test conditions. There are 7 figures and 7 references: 1 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: E. Tannenbaum, Solid State Electronics, 2, 123, 1961; L. A. D'Asaro, Solid State Electronics, 1, 3, 1960; F. A. Cunnell and C. H. Gooch, J. Phys. Chem. Solids, 15, 127, 1960; J. W. Allen, J. Phys. Chem. Solids, 15, 134, 1960.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad)

SUBMITTED: September 29, 1961

Card 2/A

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FEDOTOV, S.A.; MATVEYEVA, N.N.; TARAKANOV, R.Z.; YANOVSKAYA, T.B.

Longitudinal wave velocities in the earth's upper mantle in the region of the Japanese and Kurile Islands. Izv. AN SSSR. Ser. geofiz. no.8:1185-1191 Ag *64 (MIRA 17:8)

1. Institut fiziki Zemli AN SSSR.

MATVEYEVA, N.N.

Solving the diffusion equation in the case of approximated arbitrarily varying surface concentration. Zav.lab. 31 no.4:451-452 '65. (MIRA 18:12)

1. Institut poluprovodnikov AN SSSR.

William Labor

1

ACCESSION NR: AP4019815 \$/0279/64/000/001/0143/0150

AUTHOR: Kornilov, I. I. (Moscow); Hatveyeva, N. P. (Moscow)

TRANSCEN WARE SERVED SHOW

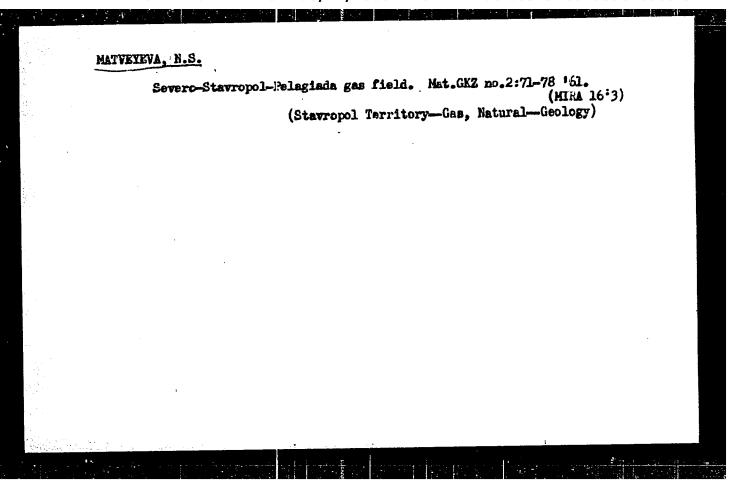
TITLE: Relationships between the heat of dissociation and refractoriness of type HeNi sub 3 metallic compounds

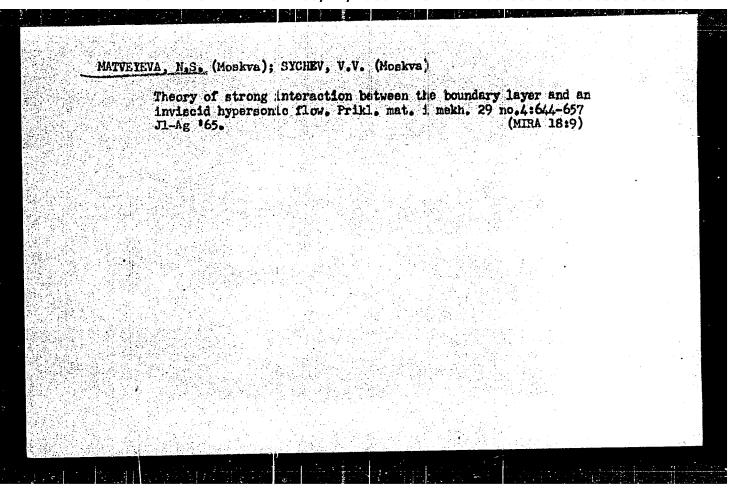
SOURCE: AN SSSR. Izv. Metallurgiya i gornoya dalo, no. 1, 1964, 143-150

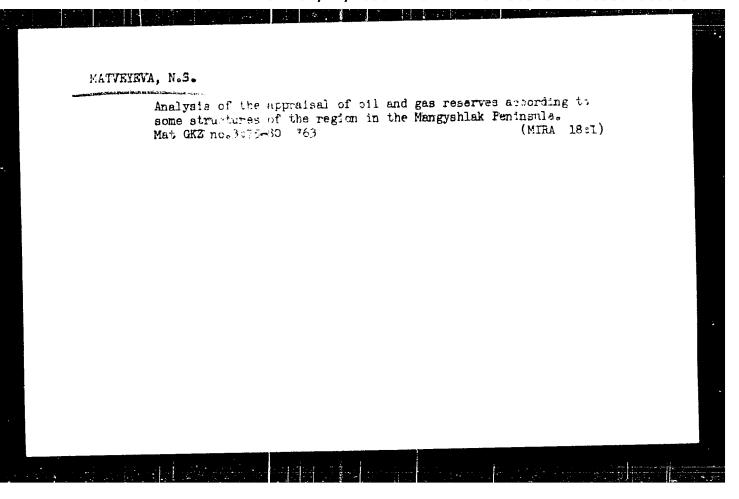
TOPIC TAGS: Intermetallic compound, Kurnakov compound, alloy heat resistance, nickel alloy heat resistance, dissociation heat, nickel alloy phase conversion, metallic nickel compound, HeNI sub 3

ABSTRACT: The relationship between the heat of dissociation in a solid solution (AH) for MeNig-type compounds and the position of the Fe, Mn, Cr, V, and Ti components in the periodic table was studied after 700, 1000, and 1400 hrs. of hardening at 450 (FeNig, MnNig, CrNig) and 950C (VNig). An attempt was made to establish relationships between the changes in strength of chemical bonds (related to heat of reaction) and creep factors (2% kg/mm² at 450C), as well as the relative strength of alloys of similar chemical composition in a solid solution or compound state. The heat of dissociation for the so-cailed Kurnakov compounds (FeNig, MnNig, CrNig) reaches significant values, which approach those for VNig and TiNig. The formation of these compounds, as well as VNig, from solid solutions represents a phase trans-

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| mustion of the first order. The india, VNi3 and TiNi3, the increases in the periodic table; of MeNi3 compounds is related to increases in the order Fellounds have better creep resisticant difference in heat resisting. | CrNi3 requires fur o their heat of di 3, MnNi3, CrNi3, V ance than their patence between meta | rther study. The he sociation, CrNi2 a N', and TiNi2. The prent solid solution lilic compounds and | at resistance gain excepted, metallic com- s. The signi- solid solutions mical character- | |
| icant difference in heat resist for the same chemical composition stics and does not depend on the control of t | he methods used to | prepare the test s | amples. Orig. | |
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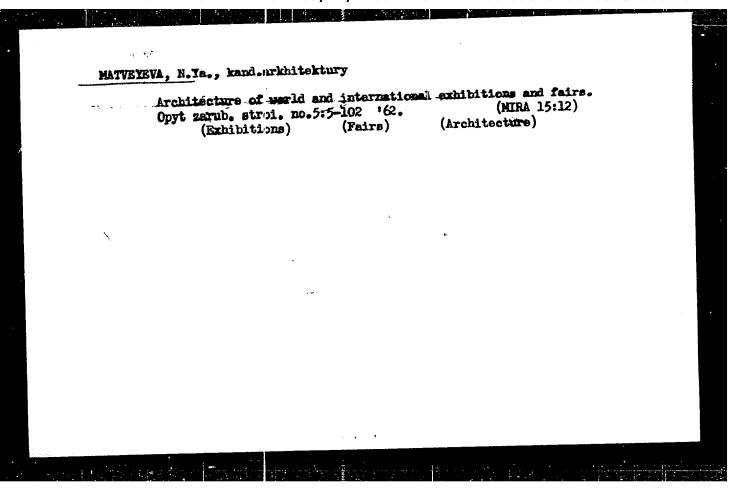




NIKITINA, Z.I.; MATVEYEVA, N.V.; KHAK MUN TEN

Microbiological research on some soils in the Maritime Territory. Soob. DVFAN SSSR no. 15:59-64 '62. (MIRA 17:9)

I. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya AN SSSR i Dal'nevostochnyy gosudarstvennyy universitet.



MARIYEV, M.N.; PALETSKIY, G.V.; ANISIMKIN, I.G.; REHENKO, M.; KALININ, Ye.P.;

TROFIMOV, S.M.; VURGAFT, G.V.; POPOV, V.S.; KOROL', P.Z.;

KULIK, A.A.; KALIMAN, L.A.; FARBER, S.I.; MATVEYEVA, M.Ye.;

GAVRILOV, V.S.; KADYROV, V.K.; IL'YASOV, A.I.; YAKUBOV, S.G.;

PROSKURIN, M.P.; NESTERENKO, A.P.; DEZHIN, N.D.; KOCHEROV, V.,

PROSKURIN, M.P.; NESTERENKO, A.P.; DEZHIN, N.D.; KOCHEROV, V.,

POPOV, V., red.; SALAKHUTDINOVA, A., tekhn. red.

[Chirchik, a city of major industrial chemical complexes]
Chirchik - gorod bol'shoi khimii. Tashkent, Gosizdat UzSSR,
(MIRA 16:6)
1962. 82 p.

1. Chlen-korrespondent Akademii nauk UzSSR (for Nabiyev).
2. Rabotniki Chirchikskogo elektrokhimkombinata (for all except Nabiyev, Kocherov, Popov, V., Salakhutdinova).

(Chirchik-Chemical plants)

MATVEYEVA, O. A., Cand. Medic. Sci. (diss) "Reactivity of Blood System After Sub- and Total Resections of Stomack and in Case of Experimental Hepatitis in Dogs," Tomsk, 1961, 11 pp. (Omsk Med. Inst.) 250 copies (KL Supp 12-61, 286).

ACC NRI AP7001883 SOURCE CODE: UR/0362/66/002/012/1253/1258 Dianov-Klokov, V. I.; Matveyeva, O. A. AUTHOR: ORG: Institute of Atmospheric Physics, Academy of Sciences SSSR (Institut fiziki atmosfery, Akademiya nauk SSSR) TITLE: The effect of $[0_2]$ and $[0_2-N_2]$ complexes on the transparency of the atmospheric surface layer SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 12, 1966, 1253-1258 TOPIC TAGS: atmospheric physics, atmospheric transparency, atmospheric optics, molecular absorption, Rayleigh scattering, ozone, aerosol ABSTRACT: Direct measurements and laboratory data imply that approximately 40% of the total diffuse molecular absorption in the lower atmosphere in the 2800—2300 Å region is due to short-lived $[0_2]_2$ and $[0_2-N_2]$ complexes. The contribution of molecular oxygen (0,) is approximately the same. sum of decimal absorption coefficients for these constituents and for the Rayleigh scattering coefficient equals unity at 2400 Å, and increases rapidly with decreasing wavelength. Even for a minimum concentration of aerosols and ozone in the lower atmosphere, the atmospheric transparency 1/2 UDC: <u>551.521.3</u>

| | limit Origi | in th | e ultraviole has: 4 Tigu | t region i | s estimat | ed to or | cur at \ | - 2400 | -2500 Å. | |
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| | 2/2 | | | • | A | | • | | | · [|

MATVEYEVA, O. F.

"Course of Pregnancy and Childbirth During Hypertension." Cand Med Sci, Inst of Obstetrics and Gynecology, Acad Med Sci USSR, Leningrad, 1953. (RZhBiol, No 5, Nov 53)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

WASILEVSKAYA, N.L.; MATVEYEVA, O.F. Reticulocytosis in peripheral blood of the mother as a symptom of oxygen deficiency in the fetus. Akush. i gig. 33 no.2:5-11 Mr-Ap. '56. (MEMA 9:7) 1. Iz kliniko-diagnosticheskoy laboratorii (zav. - kandidat meditsinskikh nauk N.L. Vasilevskaya) i rodil'nogo otdeleniya (zav. - dotsent L.A.Reshetova) Instituta akusherstva i ginekologii AMN SSSR (dir.-prof. P.A.Beloshapko) (PREGNISCT, blood in reitculocytosis, as diag. of oxygen defic. of fetus) (PETUS oxygen defic., determ. by means of reticulocytosis determ. in mother) (OXYGEN, defic. in fetus, diag. by means of reticulocytosis determ. in mother)

SHEYKHER, E.I.; ZVAGIL'SKAYA, V.N.; TINGFEYEVA, N.Ye.; MATVEYEVA, O.G.

Studying some species of wild and domestic rodents as sources of endemic rickettsioses. Vop.kraev.pat. no.4:108-112 '54. (MIRA 9:12)

(RIGKET!SIA) (RODERTS AS CARRIERS OF DISRASE)

MATUEYEVA

. USSR/Cultivated Plants - Fruits. Berries.

М.

Abs Jour

: Ref Zhur - Biol., No 10, ,958, 44331

Author

: Matveyeva, O.I.

Inst

Title

: On the Significance of the Fruit Bearing of the Shoots.

Orig Pub

: Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, 1956,

No 6, 37-39.

Abstract

: In 1947 one half of the plot of the "Livadia" collective (Crimes) was planted with the fruit bearing cuttings of white Muscat and the other with the fruitlesa shoots of white Muscat in the third year of fruit bearing. Consideration of the elements of fruit bearing during 1950-1952 showed that the bushes grown from the fruitless shoots surpassed by 1.5-2 times the yield of the bushes grown from the fruit bearing shoots. The experiments startel in 1954 showed that the ability of the cuttings

Card 1/2

- 167 -

L 07049-67 EWT(1)/EEG(k)-2/EWP(k) IJP(c) WG/GG
ACC NK: AP6027128 (A) SOURCE CODE: UR/0311/66/000/006/0022/0024

AUTHOR: Vol'kenshteyn, A. A. (Candidate of technical sciences); Yefremov, V. P. (Engineer); Kuvaldin, E. V. (Engineer); Matveyeva, O. K. (Engineer); Sazonov, V. M. (Engineer)

ORG: None

TITLE: Photometric equipment for pulsed light sources

SOURCE: Svetotekhnika, no. 6, 1966, 22-24

TOPIC TAGS: photometer, light pulse, laser pulsation, flash lamp

ABSTRACT: A unit for photometric measurement of pulsed light sources is described. This unit consists of three instruments: an FILT photometer for flash lamps, an FML-m photometer for lasers and a KOS standard light pulse generator. The FIL photometer may be used for measuring nearly all types of industrial flash tubes and the FML-m is used for measuring the radiation from free-emission lasers. The KOS instrument generates reproducible standard light pulses and is used for calibration of the two photometers. Photographs of each of the component instruments are given together with brief descriptions. The flash tube photometer may be used for measuring the luminous intensity of a light source with a maximum transverse dimension of 110 mm. The fundamental scale of the instrument has graduations of 100 candles/div, 105 nits/div and

Cord 1/2

UDC: 535.242.2

L 07949-67 ACC NR: AP6027128

10⁻³ ca·sec/div. These graduations may be expanded by five orders of magnitude for measuring higher intensities by changing the resistance of the load on the photocell or by using neutral light filters. The time characteristics of the instrument are: least resolved duration of the leading front -- 5·10⁻⁷ sec, pulse duration -- no more than 10⁻² sec. The approximate value of a graduation on the FML-m photometer is 10 w and 10⁻⁴ joules per unit of the reference scale. The upper limits of measurement are 10⁸ w and 10³ joules. The unit may be used for laser measurements in the 400-1100 mp spectral region. The time resolution of the photocell is a few tenths of a microsecond. The KOS instrument generates pulses with a duration of approximately 3 psec and a luminous intensity of 200,000 ca. The authors consider it their pleasant duty to mention the considerable part played by N. F. Shipul', L. I. Mel'nikova, R. V. Tsyvkin, V. M. Shpan'koy and V. N. Kornilov in development of this photometric equipment. Orig. art. has: 3 figures.

SUB CODE: 13, 20/ SUBM DATE: None/ ORIG REF: 005

Card 2/2 2

L 07949-67 EWT(1)/EFG():)-2/EWP(k) IJP(c) WG/GG
ACC NR: AP6027128 (A) SOURCE CODE: UR/0311/66/000/006/0022/0024

AUTHOR: Vol'kenshteyn, A. A. (Candidate of technical sciences); Yefremov, V. P. (Engineer); Kuvaldin, E. V. (Engineer); Matveyeva, C. K. (Engineer); Sazonov, V. M. (Engineer)

ORG: None

TITLE: Photometric equipment for pulsed light sources

SOURCE: Svetotekhnika, no. 6, 1966, 22-24

TOPIC TAGS: photometer, light pulse, laser pulsation, flash lamp

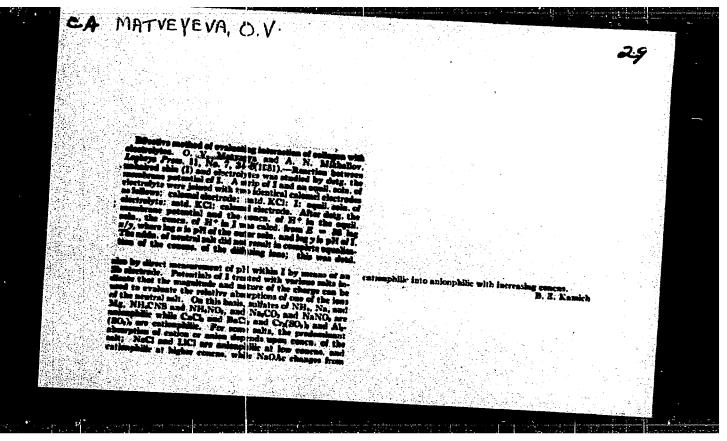
ABSTRACT: A unit for photometric measurement of pulsed light sources is described. This unit consists of three instruments: an FIL? photometer for flash lamps, an FML-m photometer for lasers and a KOS standard light pulse generator of the FIL photometer may be used for measuring nearly all types of industrial flash tubes and the FML-m is used for measuring the radiation from free-emission lasers. The KOS instrument generates reproducible standard light pulses and is used for calibration of the two photometers. Photographs of each of the component instruments are given together with brief descriptions. The flash tube photometer may be used for measuring the luminous intensity of a light source with a maximum transverse dimension of 110 mm. The fundamental scale of the instrument has graduations of 100 candles/div, 105 nits/div and

Card 1/2 UDC: 535.242.2

ACC NR: AP6027128

10⁻³ ca·sec/div. These graduations may be expanded by five orders of magnitude for measuring higher intensities by changing the resistance of the load on the photocell or by using neutral light filters. The time characteristics of the instrument are: least resolved duration of the leading front -- 5·10⁻⁷ sec, pulse duration -- no more than 10⁻² sec. The approximate value of a graduation on the FMI-m photometer is 10 w and 10³ joules per unit of the reference scale. The upper limits of Leasurement are 10⁶ w and 10³ joules. The unit may be used for laser measurements in the 400-1100 mm spectral region. The time resolution of the photocell is a few tenths of a microsecond. The KOS instrument generates pulses with a duration of approximately 3 msec and a luminous intensity of 200,000 ca. The authors consider it their pleasant duty to mention the considerable part played by N. F. Shipul', L. I. Mel'nikova, R. V. Tsyvkin, Y. M. Shpan'koy and Y. N. Kornilov in development of this photometric equipment. Orig. art. has: 3 figures.

SUB CODE: 13, 20/ SURM DATE: None/ ORIG REF: 005

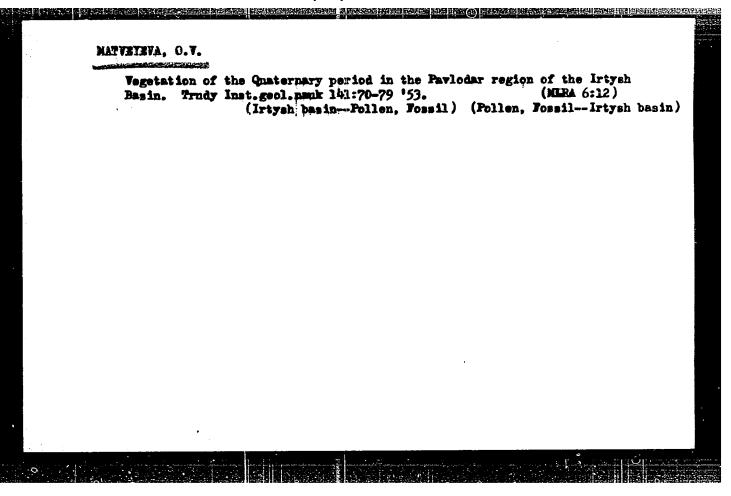


MATVEYE, O.V.

**52/2595 (Influence of treatment of gelatine with tamins upon the true specific gravity of the compound). Vitianie tammidnogo dublemin shelatiny ma istimnyi udel'nyi ves socialeminia.

Leginia Prograhlemost', 11(8): 31-33, 1951.

Distribution of ions between hide substance end the surrounding liquid during acid swelling. Engraye Prom. 12, No.8, 18-19 '52. (MLRA 5:7) (GA 47 no.19:10257 '53)

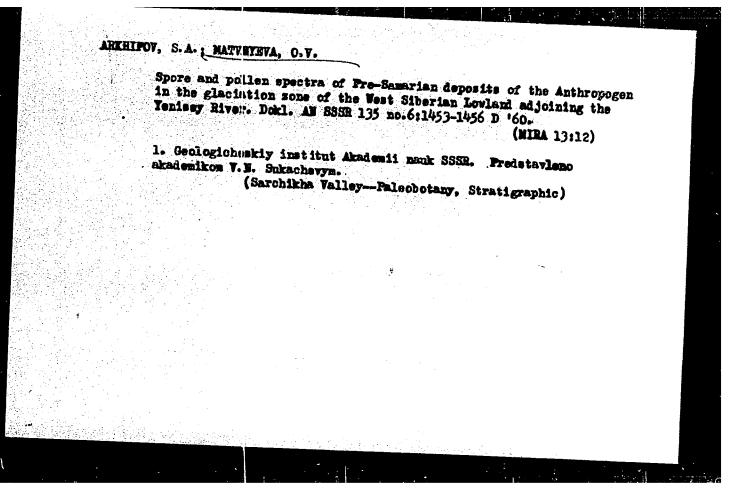


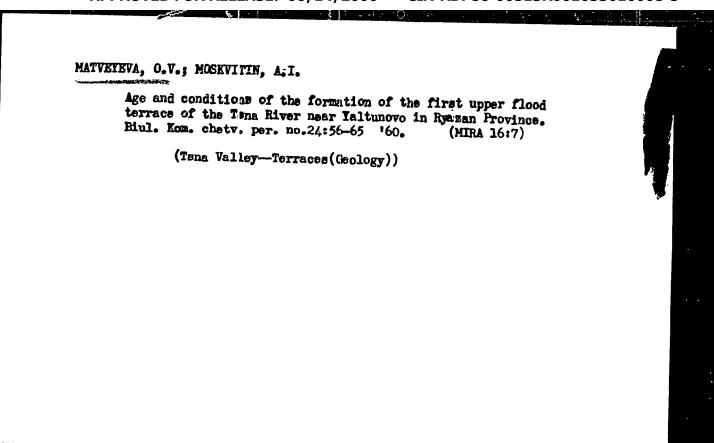
MATVEYEVA, 0.V. Spore and pollen spectra of Quaternary sediments of the Altai foothills. Izv. Sib. otd. AN SSSR Geol. i geofiz. no. 1:72-83 158. (MIRA 14:5) 1. Geologicheskiy institut AN SSSR. (Altai mountain region—Sediments (Geology)) (Palynology)

GOLUBEVA, L.B.; GITERMAN, R.Ye.; KORENEVA, Ye.V.; MATVEYEVA, O.V.;
ARKHIPOV, S.A., ovt.red.; GALUSHKO, Ya.A., red.izd-va;
GUSEVA, A.P., tekhn.red.

[Spore-pollen spectra of Quaternary sediments in Western and central Siberia and their stratigraphic importance]
Sporovo-pyl'tsevye spektry chetvertichnykh otlozhenii
Eapadnoi i tsentral'noi Sibiri i ikh stratigraficheskoe
znachenie. Moskva, Izd-vo Akad.nauk.SSSR, 1960. 114p.
(Akademiia nauk SSSR Geologicheskii institut. Trudy, no.31)

(Siberia--Palynology)





GITERMAN, R.Ye.; GOLUBEVA, L.V.; ZAKLINSKAYA, Ye.D.; KORENEVA, Ye.V.; MATVEYEVA, O.V.

Features of the vegetation cover of Kazantseva Interglacial Siberia. Dokl. AN SSSR 152 no.4:937-940 0 '63. (MIRA 16:11)

1. Geologicheskiy instutut AN SSSR. Predstavleno akademikom V_*N_* . Sukachevym.

ARKHIPOV, Stanislav Anatol'yevich; MATVEYEVA, Ol'ga Vladimirovna; PUMINOV, A.P., kand. geol.-mineralog. nauk, otv. red.; SNITSARENKO, A.A., red.

[Quaternary of the southern margin of the Yenisey Depression.] Antropogen iuzhnoi okrainy Eniseiskoi depresii. Novosibirsk, 1964. 127 p. (Akademiia nauk SSSR. Sibirskoe otdelenie. Institut geologii i geofiziki. Trudy, no.29)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (for Puminov).

ARKHIPOV, S.A.; MATVEYEVA, O.V.

Quaternary pre-Samarovo series of the southern margin of the Yenisey Depression. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.25:5-22 '64. (MIRA 17:10)

ARKHIPOV, S.A.; MATVEYEVA, O.V.

Spore-pollen spectra and some problems in the stratigraphy of Quaternary marine sediments in the lower reaches of the Yenisey.

Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.L4:225-22 (6...

(MRRA 17:11)

ALEKSEYEV, V.A.; KIND, N.V.; MATVEYEVA, O.V.; TROITSKIY, S.L.

New data on the absolute chronology of the Upper Pleistocene and Holocene of Siberia. Dokl. AN SSSR 160 no.5:1147-1150 F '65. (MIRA 18:2)

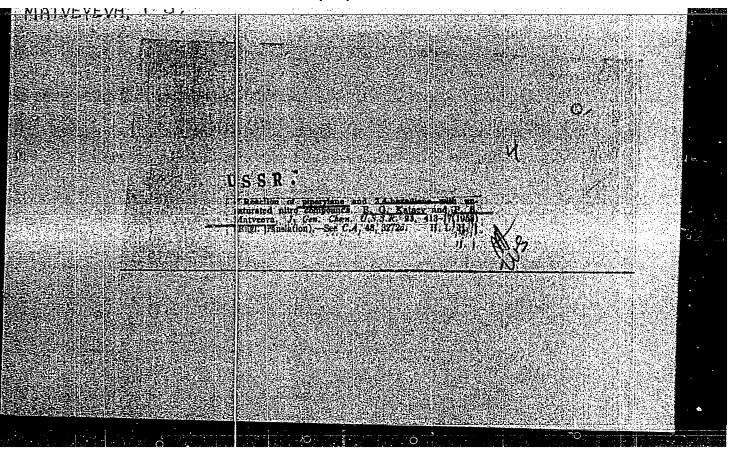
1. Geologicheskiy institut AN SSSR. Submitted May 27, 1964.

CITERNAN, R.Ye.; GOLUBEVA, L.V.; KORENEVA, Ye.V.; MATVEVEVA, O.V.

Characteristics of the vegetative cover of the Zyryanka glacial period in Siberia. Izv. AN SSSR. Ser. geol. 30 no.3:115-128 Mr '65. (MIRA 18:3)

1. Geolog:cheskiy institut AN SSSR, Moskva.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033010008-5



MATVEYEVA, Rakel: VISKARI, Byne; PORSMAN, Khel'ga; RANTANEN, Astrid;

SAINI, Khil'ya; TERVONEN, Lidiya; EHEGIJHD, Lempi; KURKI, Mariya;
LEMPINEN, Khenna; RUKHKAREN, Kyullikki; MANGILA, An'ya; PUTTOYEN,
Katri.

For the common good. Rabotnitsa 36 no.8:22 Ag '58. (MIRA 11:9)

(Russia-Description and travel)

MESHKOVA, N.P.; MATVEYEVA, R.A.; SHKARENKOVA, L.S.

<u>《表示集》的《《本》的《本》的《表示集》(《音》)的</u>

Oxidation and carbohydrate-phosphate metabolism of rat muscles in local tetamus. Vop. med. khim. 7 no. 1:85-93 Ja-F '61.

(MIRA 14:4)

1. Chair of Animal Biochemistry, Moscow State University.
(MUSCLES) (TETANUS) (METABOLISM)

MATVEYEVA, R.A.; LAPUK, Ya.I.; STEPANOV, V.M.

Colorimetric method for determining the activity of chymotrypsin and trypsin. Izv. AN SSSR. Ser.khim. no.3:501-504 Mr '64.

1. Institut khimii prirodnykh soyedineniy AN SSSR i Institut biofiziki AN SSSR.

IL'YUCHENOK, R.Yu.; ! TVEYEVA, R.B.

Studies on the effect of adrence and cholinolytic drugs in the trigeminal section of the brain stem. Farm. 1 toks. 26 no.5:525-531 [10] *63. (MIRA 17:8)

l. Laboratoriya farmakologii (zav. - kand. med. nauk R.Yu. Il'yuchenok) Instituta eksperimental'noy biologii i meditainy Sibirskogo otdeleniya AN SSSR.

IL'YUCHENOK, R.Yu.; MATVEYEVA, R.B.

· O .

Participation of M-choline-reactive systems in the mechanism of the central action of aminazine. Farm. i toks. 28 no.6:643-646 N-D *65.

1. Laboratoriya farmakologii (zav. - kand.med.nauk R.Yu. Il'yuchenok) otdela eksperimental'noy biologii Instituta tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

| Corr Mem, Acad S Dok Ak Nauk SES Dok Ak Nauk SES Discusses partia structural analy diagrams of atom were read direct USSR/Minerals Jected. Results the most part wi West in 1926. S | 66 | <u> </u> | |
|---|---------------|----------|--|
| Corr Mem, Acad Sci USSR, R. G. Matveyeva. "Dok Ak Mauk SESE" vol LXXIII, No 2, pp 299-302 Discusses partial projections, nev method for structural analysis of crystals. Fraviously, diagrams of atomic arrangement were synthesised in form of projections of the cell on cangdinate axes, from which coordinates (parameters) were read directly. In partial projections, 175766 URSR/Minerals - Crystallography 11 Jul 50 Contd) Cally part of the cell, e.g., 2, 1/3, is projected. Results obtained for beryl agree for the most part with those obtained by Bragg and west in 1926. Submitted 20 May 50. | user/Mirerals | | |

LEVANOV, Yu.M.; MATVEYEVA, R.N.

Blood serum proteins in patients with chronic brucellosis. Trudy Inst.kraev.pat.AN Kazakh SSR 12:231-235 '62. (MIRA 15:11) (BLOOD PROTEINS) (ERUCELLOSIS)

DIBROV, I.A., MASHOVETS, V.P.; MATVEYEVA, R.P.

Density and compressibility of sodium hydroxide aqueous solutions at high temperatures. Zhur.prikl.khim. 37 no.1:29-36 Ja '64.

(MIRA 17:2)

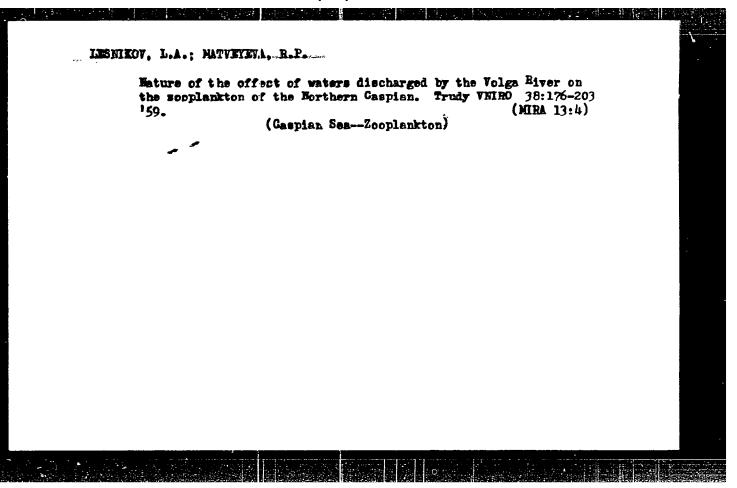
1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

MATVEYEVA, R.P.

Entrition of young pike perch on a fish farm in 1953. Fop.ikht. no.5:61-70 '55. (MEA 9:5)

 Kaspiyskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta morskogo rybnogo khozyaystva i okeanografii, VNIRO. (Perch) (Fishes--Food)

Pood of young clupsid fishes in the northern Caspian. Trudy Gidrobiol. ob-wa 8:362-386 '57. (MIRA 11:3) 1. Kaspiyskiy manchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i oksanografii. (Caspian Sea-Herring) (Fishes-Food)



Peeding and food resources of herring larvae in the lower Volga before and after the construction of the Volgograd Dam. Vop. ikht. 2 no.2:325-335 '62. (MIRA 15:11) 1. Kaspiyakiy nauchno-isəledovatel'skiy institut rybnogo khozyaystva i okeanografii -(KaspNIRO). (Volga River—Herring) (Fishes—Food)

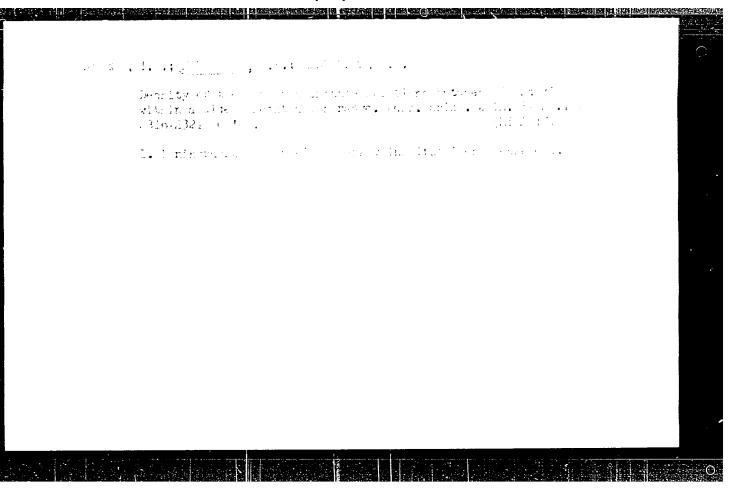
MATVEYEVA, R.P.

Food of the larvae of herring in the lower Volga River before and after the construction of the Volgograd Dam.

Trudy Gidrobiol. ob-va 12:235-244 '62. (MIRA 15:12)

l. Kaspiyskiy nauchno-issledovatel'skiy institut morksogo rybnogo khozyaystva i okeanografii, Astrakban'.

(Volga River—Hegring—Food)



BARON, N.M.; BARANOVA, T.A.; MATVEYEVA, R.P.

Density of sodium aluminate solutions at temperatures from 25 to 90°. Zhur. prikl. khim. 38 no.1:185-188 Ja '65.

(MIRA 18:3)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

MASHOWETS, V.P.; KRUMG4L'Z, B.S.; DIERGV, I.A.; MATVEYEVA, R.P.

Saturated vapor pressure of KOH solutions up to 400° and the activity of water in solutions of LiOH, NaOH, and KOH within a wide range of concentrations. Zhur. prikl. khim. 38 no. 10:2342-2344 0 '65.

Density of aqueous KOH solutions at high temperatures within a wide range of concentrations. Thid.:2344-2347

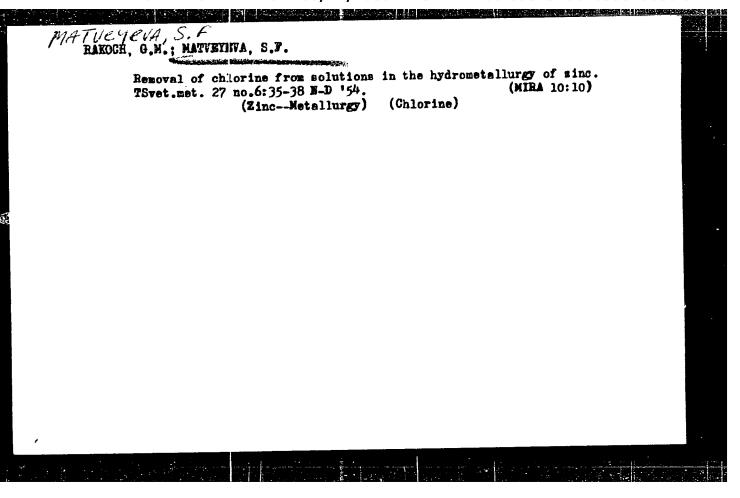
(MIRA 18:12)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

Submitted July 22, 1964.

MOXHOV, L.A.: MATVEYEVA, S.A.

Colorimetric quantitative determination of the hydrogen sulfide content of the air. Lab. delo 8 no.3:44-47 Mr '62. (MIRA 15:5) (COLORIMETRY) (HYDROGEN SULFIDE) (AIR--POLLUTION)



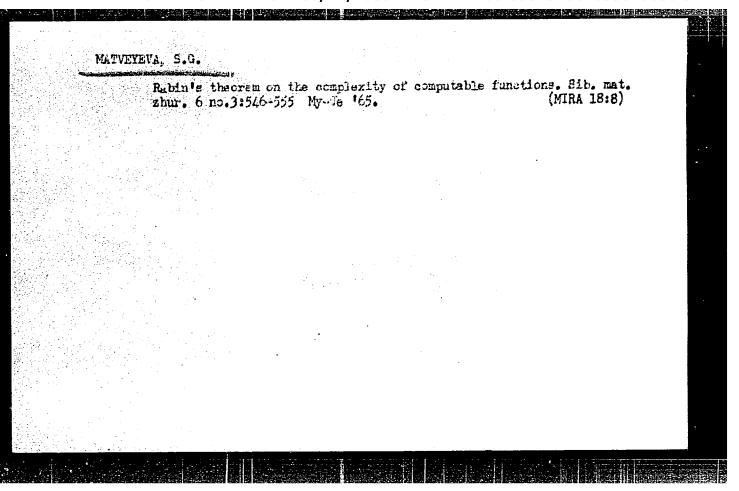
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RAKOCH, G.H.; MATVEYEVA, S.F.

Work experience with pulp purification in the production of sinc.

TSvet.met. 29 no.3:20-25 Mr 156. (MIRA 9:7)

1. Chelyabinskiy tsinkovyy zavod imeni S.M. Kirova. (Chelyabinsk--Zinc--Metallurgy)



MATVEYEVA, S. I.

Dissertation: "Development of the Nervous Elements in the Wall of Small Intestine of Human." 9/1:/50

Academy Med Sci USSR

SO Vecheryaya Moskva

Sum 71

MATVEYEVA S.I.

Martin graph and regarded in

Lab. of digest. Phys. and Path.; Phys. Inst., USSR Acad. of med. Scis. *Changes in the intramural nervous system of the stomach and the duodenum in peptic ulcer experimentally produced with the aid of atophan (Russian text) ARKH. PATOL. (Moscow) 1953, 6 (64-69)

Experiments were made in 18 dogs and the results were compared with those obtained in 5 cases of human peptic ulcer. Administration of 0.2 g. atophan per kg. body weight was followed by the occurrence of marked changes in the intramural ganglia (shrinking of swelling of ganglion cells, degeneration, club-shaped swelling of nerve fibres etc.) in addition to ulcerations. The changes were highly similar to the intramural ganglion changes seen in human peptic ulcer; the changes were partly reversible.

S0: Excerpta Medica Section V Vol. 7 No. 10

AUTHORS:

Hatveyeva, S. P., Geller, B. E.,

SOV/~156-58-3-39/52

Pakshver, A. B.

TITLE:

The Influence of the Properties of the Polyacrylnitrile Fiber on the Conditions for Dying it (Vliyaniye svoystv poliakriloni-

tril'nogo volokna na usloviya yego krasheniya)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 3, pp. 553 - 555 (USSR)

ABSTRACT:

The dying of synthetic fibers depends on the rate of diffusion of the coloring substance in the interior of the firber. The diffusion coefficient of the coloring substance in the polyacrylnizrile fiber is very small, which makes it difficult to dye. Newly-produced fiber can be dyed well and evenly with

acid and basic coloring substance after washing and before complete drying. After the drying process the fibers lose almost completely their absorptive power for the coloring substances. The experiments carried out showed that a sarisfactory dying of the polyacrylnitrile fiber is possible only when the fiber is slightly swollen prior to its complete drying. There are 1

Card 1/2

figure and 7 references, 5 of which are Soviet.

The Influence of the Properties of the Polyacrylnitrile Fiber on the Conditions for Dying it

SOV/ 156-58-3-39/52

ASSOCIATION:

Kafedra khimicheskoy tekhnologii voloknistykh

materialov Vsesoyuznogo zaochnogo instituta tekstil'noy i legkoy promyshlennosti (Chair for the Chemical Technology of Fiber

Materials at the All-Ilmon Institute for the Study by Correspondence

of Text: le and Light Industry)

SUBMITTED:

February 27, 1958

Card 2/2

LYAMZIN, I.T.; CHEREPANOV, V.N.; MATVEYEVA, S.P.; YEGGROVA, A.S.; BUYLENKO, V.I.

Destruction of alkali in the presence of sodium chlorate contained in the caustic soda solution. Khim. volok. no.3:57 '65. (MIRA 18:7)

1. Ryazanskiy kombinat iskusstvennogo volokna.

15.5550 5.0832 5(4), 3(3)

66962

SOV/183-59-5-4/28

AUTHORS:

Matveyeya, S. P., Myagkov, V. A.

TITLE:

Determining the Molecular Weight of Polyethylene Terephthalate on the Basis of Terminal Groups

PERIODICAL:

Khimicheskiye volokna, 1959, Nr 5, pp 18-21 (USSR)

ABSTRACT:

The authors developed a simple and sufficiently accurate method for the quantitative determination of terminal carboxylic groups in polyethylene terephthalate. The determination is based on direct titration of polyester dissolved in aniline with 0.05 N alcoholic NaOH and phenol phthalein as an indicator at 70-75°C. The substance is dissolved in aniline at 130-140°C. Table 1 of the paper shows the content of COOH groups in the "lavsan" fiber and in the "lavsan" resin at various dissolution times and constant temperature. It appears that polyethylene terephthalate is not destroyed by a 40-minute dissolution in aniline at 130-140°C. Additionally, the method suggested by W. Griehl and S. Neue (Ref 6) for the quantitative determination of terminal hydroxyl groups was modified according to the properties of polyethylene terephthalate. The method is based on bromine acetylation of the OH groups by means of bromoacetyl

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bromide in nitrobenzene, and subsequent determination of the bromine content. The bromoacetylated product is first hydrolyzed by potash lye, the bromine ion is precipitated with silver nitrate, and the excess Ag ion back-titrated with 0.05 N ammonium rhodanide solution. It was shown that the polyester investigated, in all stages of its production and processing, contains terminal OH- and COOH groups (Table 5). The molecular weight of the polyester investigated was computed from the content of terminal carboxyl- and hydroxyl groups by the equation

Mgr 0.5 (OH+COOH).10⁻⁶ on one hand, and according to Griehl and Neue from the specific viscosity η of a 0.5% solution (solvent phenol + tetrachloroethane 1:1) at 20°C, on the other. The authors mentioned give for this purpose, two different

equations; only one of them, $N_v = \sqrt[0.85]{\frac{(7)}{1.27 \cdot 10^{-4}}}$, supplies

useful values whereas the values obtained by the second equation

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> are too high (Table 4). There are 5 tables and 7 references, 2 of which are Soviet.

ASSOCIATION: Kalininskiy filial VNIIV (Kalinin Branch of the VNIIV)

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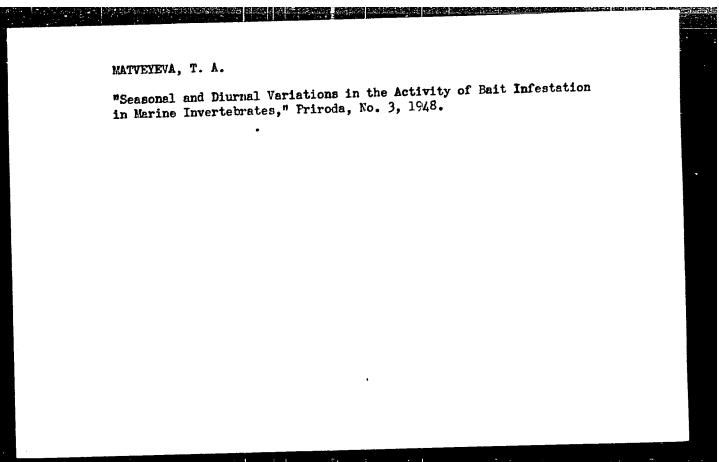
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1. Murmanskaya biologicheskaya stantsiya Kol'skogo filiala Akademii nauk SSER. Predstavleno akademikom Te.H.Pavlovskim.

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